

- 1 Find the rate of simple interest (correct to one decimal place) in each of the following situations:
  - a \$10 000 increases to \$12 000 in two years
  - b \$5300 invested for five years and earning \$2119 interest
  - c \$620 invested for one year and earning \$24.80 interest
  - d \$200 500 invested for two-and-a-half years and earning \$30 075 interest
  - e \$150 invested for 18 months and earning \$7.88 interest
  - f \$1125 invested for four years and 3 months and earning \$262.97 interest
  
- 2 Find the number of years taken for the following investments (correct to one decimal place) to earn the stated amounts of simple interest:
  - a \$10 000 at 5% per annum earns \$1500
  - b \$20 000 at 6% per annum earns \$3000
  - c \$2400 at 12% per annum earns \$864 interest
  - d \$700 at 5% per annum earns \$140 interest
  - e \$1000 at 7.5% per annum earns \$112.50 interest
  - f \$72 500 at 7.25% per annum earns \$21 025 interest
  
- 3 How much should be invested to earn the interest stated over the period given in each of the following? Give your answers correct to the nearest dollar.
  - a Interest of \$1000 at a simple interest rate of 5% per annum over five years
  - b Interest of \$700 calculated at 7% per annum simple interest over four years
  - c Interest of \$15 000 calculated at 3% per annum simple interest over five years
  - d Interest of \$22 500 calculated at 4% per annum simple interest over five years
  - e Interest of \$10 500 calculated at 3% per annum simple interest over 42 months
  - f Interest of \$22 500 calculated at 4% per annum simple interest over 18 months
  
- 4 How much should be invested to achieve the investment stated over the period given in each of the following? Give your answers correct to the nearest dollar.
  - a The amount of \$12 300 if the principal is invested at a simple interest rate of 5% per annum for five years
  - b The amount of \$33 600 if the principal is invested at a simple interest rate of 4% per annum for five years

- c** The amount of \$53 000 if the principal is invested at a simple interest rate of 3% per annum for two years
- d** The amount of \$100 000 if the principal is invested at a simple interest rate of 8% per annum for two years

### Answers for Chapter 4 Skillsheet 4C

- 1**
- a 10%
  - b 8%
  - c 4%
  - d 6%
  - e 3.5%
  - f 5.5%
- 2**
- a 3 years
  - b 2.5 years
  - c 3 years
  - d 4 years
  - e 1.5 years
  - f 4 years
- 3**
- a \$4000
  - b \$2500
  - c \$100 000
  - d \$112 500
  - e \$100 000
  - f \$375 000
- 4**
- a \$9840
  - b \$28 000
  - c \$50 000
  - d \$86 207